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HIGHWAYS OF BRICK.

Method For Constructing a Road of This Material.

GRADING IMPORTANT FACTOR

For Satisfactory Results the Road Must Be Entirely Free From Depressions. Proper and Economical Way of Laying the Brick.

In an address before a recent engineering convention in Indiana on the construction of brick highways W. L. Blais said: A brick highway to be entirely satisfactory must be entirely free from depressions, every part conforming to the grade. This result must be anticipated in the preparation of the sand cushion, first spread at the estimated depth of two inches and these depressions avoided by the use of a hand roller weighing from 300 to 400 pounds, additional sand applied, rolled and screeded again at least three times. At the last screeding it will be found that the uncompacted sand will not be over one-quarter inch in depth at any one point.

It is certain also that in laying out what few depressions remain and compacting the brick into the cushion but very little sand will be pushed into the interstices by the final rolling.

The brick should be dropped in straight lines upon the sand cushion, with the best edge of the brick uppermost. Economy for the contractor would require that the brick be brought to and deposited within reach of the person who actually lays the brick in a way that will accommodate his method of dropping them in place, insuring the best edge uppermost. But previous to dropping the brick in the street attention must be given to the necessary provision for the expansion cushion next to the curb.

The board should be prepared by leveling a foot eight inches in width, the thickness determined largely by the width of the street. Even in a narrow street the expansion cushion



From Good Roads Magazine, New York. WELL-BUILT BRICK ROADWAY.

should not be less than one inch, one and one-quarter inches for a thirty foot street and one and one-half inches for a width exceeding thirty feet. This board should be placed next to the curb, worked slightly into the sand cushion before the brick are laid and remain until the street is finished in all other respects, after which it should be removed within twenty-four hours following the application of the cement filler.

After the brick are dropped into the street the surface should be swept, precaution theretofore exercised that no brick go into the street which are dirty, or, after it, that they are not made so by use, as it is impossible for the cement filler to adhere to a dirty surface. After the sweeping thorough rolling must take place by the use of a roller not weighing over five tons.

The filler shall be composed of one part each of clean, sharp sand and portland cement. The sand should be dry. The mixture, not exceeding one-third bucket of the sand, together with a like amount of cement, shall be placed in the box and mixed dry until the mass assumes an even and unbroken shade. Then water shall be added, forming a fluid mixture of the consistency of thin cream.

From this time the water is applied until the last drop is removed and floated into the joints of the brick pavement the mixture must be kept in constant motion.

To avoid the possibility of thickening at any point there should be a man with a sprinkling can, the head perforated with small holes, sprinkling the surface ahead of the sweeper.

Within one-half to three-quarters of an hour after this last coat is applied and the joint between the joints has fully subsided and the initial set is taking place the whole surface must be slightly sprinkled and all surplus mixture left on the tops of the brick swept into the joints.

After the joints are thus filled flush with the top of the brick and sufficient time for hardening has elapsed, so that the coating of sand will not absorb any moisture from the cement mixture, one-half inch of sand shall be spread over the whole surface, and in case the work is subject to a hot summer sun an occasional sprinkling, sufficient to dampen the sand, should be followed for two or three days.

The last steps upon which depend the highest possibilities of the brick street are the proper rolling of the brick after they are in the street and the insuring out of any slight depressions found to exist.

BACK YARD BEAUTY.

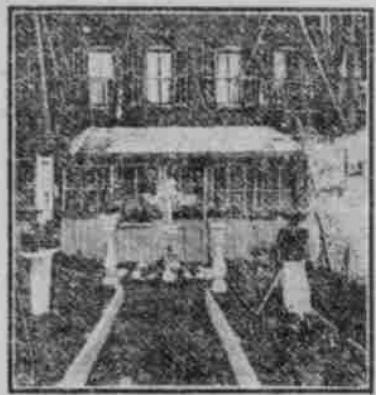
Suggestion For Transforming Rear of Homes.

THE LESSON OF ONE WOMAN

How Yard in Back of the House of Mrs. Dennison in Scranton, Pa., Is Utilized During All the Seasons of the Year.

There is a study in contrasts in back yards, and it demonstrates what may be accomplished by the expenditure of some effort and a little skill in horticulture. Anybody with a back yard, no matter how dilapidated in size or how steep, may have a pretty little flower or vegetable garden. In many large towns and cities there has long been a successful movement for the beautifying of that traditional eyesore, the back yard, where most people appear to think all kinds of rubbish and debris should be piled up and displayed in a conspicuous manner. Flowers and vegetables in the back yards keep the young folks—and the older ones, too—out of mischief, and a housewife who has to care for a few plants has not much time for gossiping and conferring with gossiping neighbors over the rear fence. Aside from having this highly beneficial effect a yard full of nice things is most instructive. It takes people back to the soil and gives them something more solid than the ordinary workaday matters of present life. As a rule, those interested in land culture not only take their work seriously, but find in it one of the greatest pleasures of life. During an investigation of towns and cities for the betterment of back yards one that was a pleasure to the eye and a credit to the city of Scranton, Pa., was the rear yard of Mrs. F. E. Dennison. There is quite a plot of ground in the rear of her house which was a sight to make the spirit rise up and rebel when she first saw it. There were old tin cans and boots, and weeds sprouted in much confusion. But she soon changed all this.

Purchasing some seed, she fell to, and in a very short time that unsightly back yard blossomed like the proverbial rose garden. Now she has ever so many kinds of plants. She has made it a practice in the morning before attending to her household duties to take hold of hoe and spade and to



A WELL-ARRANGED BACK YARD. (From American City Magazine, New York.)

work in her garden. The rest of the family lend their assistance also. She has a procession of flowers. Before the snow leaves the ground in the late winter the snowdrops appear in the beds; then when March winds blow and bluster pretty crocuses peep out, followed by jonquils and bleeding hearts; then as summer rolls round her garden is a mass of beautiful flowers and a variety of vegetables. Now, this little sermon is preached to ruralites not to tell them of the pretty yard of this industrious woman, but only to demonstrate just what can be done with that small space in the rear of their homes. So let those that are not affected with bookworm and interested in the improvement of their towns band together to see that the small piece of ground back of their houses is tilled and made beautiful and useful.

Helpful Hints For Playgrounds. The universal impulse to play is a divinely ordered thing. If God gives the instinct man ought to provide the playground.

Man plays only where he is a human being in the fullest sense of the word, and he has reached full humanity only when he plays.

It would be difficult to find any point at which in our large cities a dollar will go further in the making of those things for which the city exists than in the provision and maintenance of playgrounds.

In these playgrounds and in their work lie the beginning of social redemption of the people in large cities. They furnish the spectacle of a city saving itself; of the people of a great city finding nature and God by finding their neighbors and themselves.

Here lies the function of the playground. It gives the individual the opportunity for mastery of his body under conditions of increasing difficulties in its varied physical activities. It also gives the opportunity for the social experiences of democracy of self and group government. It is the school for physical and social self discovery and self direction.

There is another point of view which maintains that no matter how great the cost the value of the boy saved is incalculable, beyond it. This point of view is suggested by that Master of practical life who knew full well the value of money, even the widow's mite. For what shall it profit a city if it win the whole world and lose the souls of its children?

"Cherry-Blossom."

THE JAPANESE GIVE GOOD EXAMPLE.

It is a proverb of Cherry Blossom Land that a healthy stomach is the basis of all strength. Good nature is also recognized as of great importance. The Japanese as a people are remarkable for their health, endurance, patience and skill.

The cherry tree is the most highly prized of all in Japan. It not only gives forth a beautiful blossom but the wild cherry tree furnishes a bark which is most highly prized in medicine.

WELL CHERRY (Purified Glycerine). The United States Dispensary, which is an authority on medicines, says of the properties of this Black Cherrybark: "Uniting with a tonic power the property of causing friction and stimulating nervous excitability. Adapted to the treatment of diseases in which there is debility of the stomach or of the system." Another authority, KEMP'S AMERICAN DISPENSARY says: "It gives tone and strength to the system, is useful in fever, cough, and fatal exhaustion in consumption." This ingredient is only one of several very important native medicinal roots in Dr. Pierce's Golden Medical Discovery. This is a remedy which has enjoyed the public approval for nearly forty years, nothing new or untried about it, has cured thousands of people of those chronic, weakening diseases which are accompanied by a cough, such as bronchitis and incipient consumption. More than that, by reason of the other ingredients, Bloodroot, Mandrake, Golden Seal, and Queen's root, all of the medicinal virtues of which are scientifically extracted and combined in Dr. Pierce's Golden Medical Discovery, remarkable cures of dyspepsia and stomach disorders have been accomplished.

Nearly forty years ago, Dr. Pierce discovered that chemically pure glycerine of proper strength is a better solvent and preservative of the active medicinal principles residing in most of our indigenous or native medicinal plants than is alcohol. As its use is entirely unobjectionable, while alcohol is well known when used even in small portions, for a protracted period, to do lasting injury to the human system, especially in the case of delicate women and children, he decided to use chemically pure glycerine instead of the usually employed alcohol in the preparation of his medicines. He found that the glycerine, besides being entirely harmless, possesses intrinsic medicinal properties of great value. Its nutritive properties, Dr. Pierce believes, far surpass those of cod liver oil, making it to be considered in all cases of incipient consumption and other wasting diseases. It is an invigorating, tonic alternative and over its virtues to Nature's vegetable garden. Dr. Pierce is only the

Nature's Garden. (Lender who knows how to combine the plants given us by Nature to cure our diseases. This preparation is of pleasant taste, agrees perfectly with rebellious and sensitive stomachs, and is extremely effective in restoring tone and vigor to the entire system. It cures inflammatory troubles of the stomach as well as indigestion and dyspepsia arising from weak stomach. One reason why it restores the health of run-down, pale and emaciated people is because it first throws out the poison from the blood through the liver and kidneys. It then begins its reconstructive work in building up flesh by first making good, rich, red blood.

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Edited and published by R. O. Pace at Greenville, made its appearance

APRIL 1, 1910

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